



# The National Children's Study

## Vanguard Center in Duplin County, NC

### November 2005

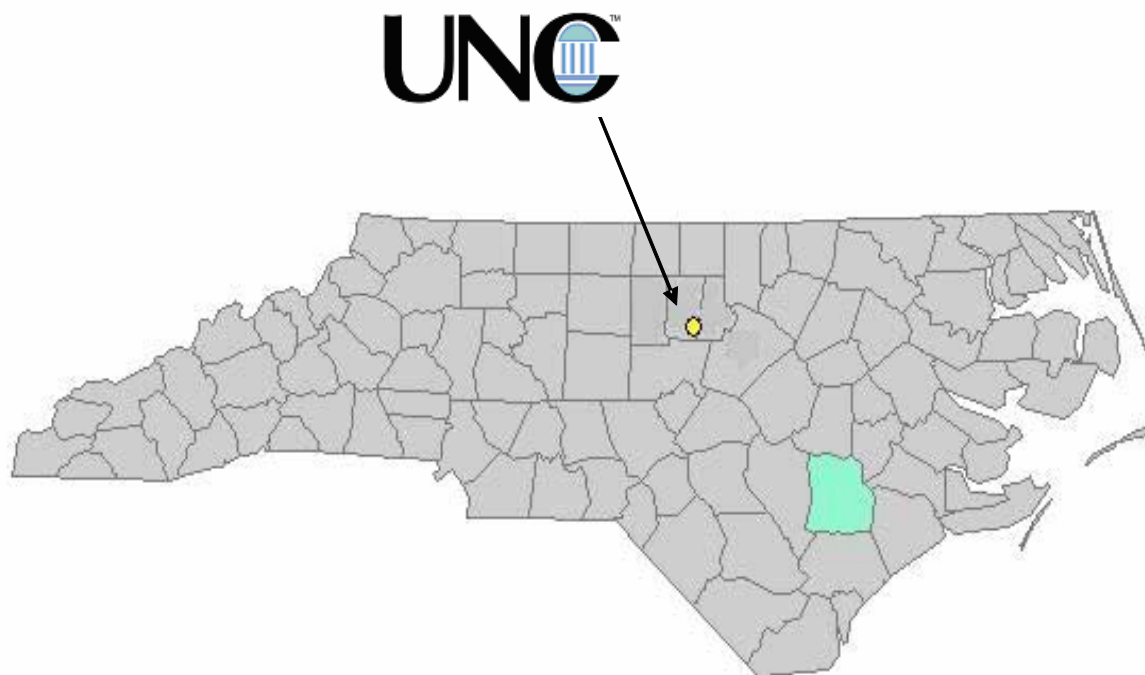
**Barbara Entwisle**

Carolina Population Center

University of North Carolina at Chapel Hill



# Vanguard Location – Duplin County, NC



# Duplin County Tour



*Photo taken by Christopher W. Lyu, MPA,  
Battelle/Centers for Public Health Research & Evaluation Duplin County Vanguard Center – University of North Carolina.*





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# Duplin County Tour



## Chinquapin

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# Duplin County Tour



## Wallace

*Photo taken by Christopher W. Lyu, MPA,  
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# Duplin County Tour



## Duplin County Court House, Kenansville

*Photo taken by Christopher W. Lyu, MPA,  
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# Duplin County Tour



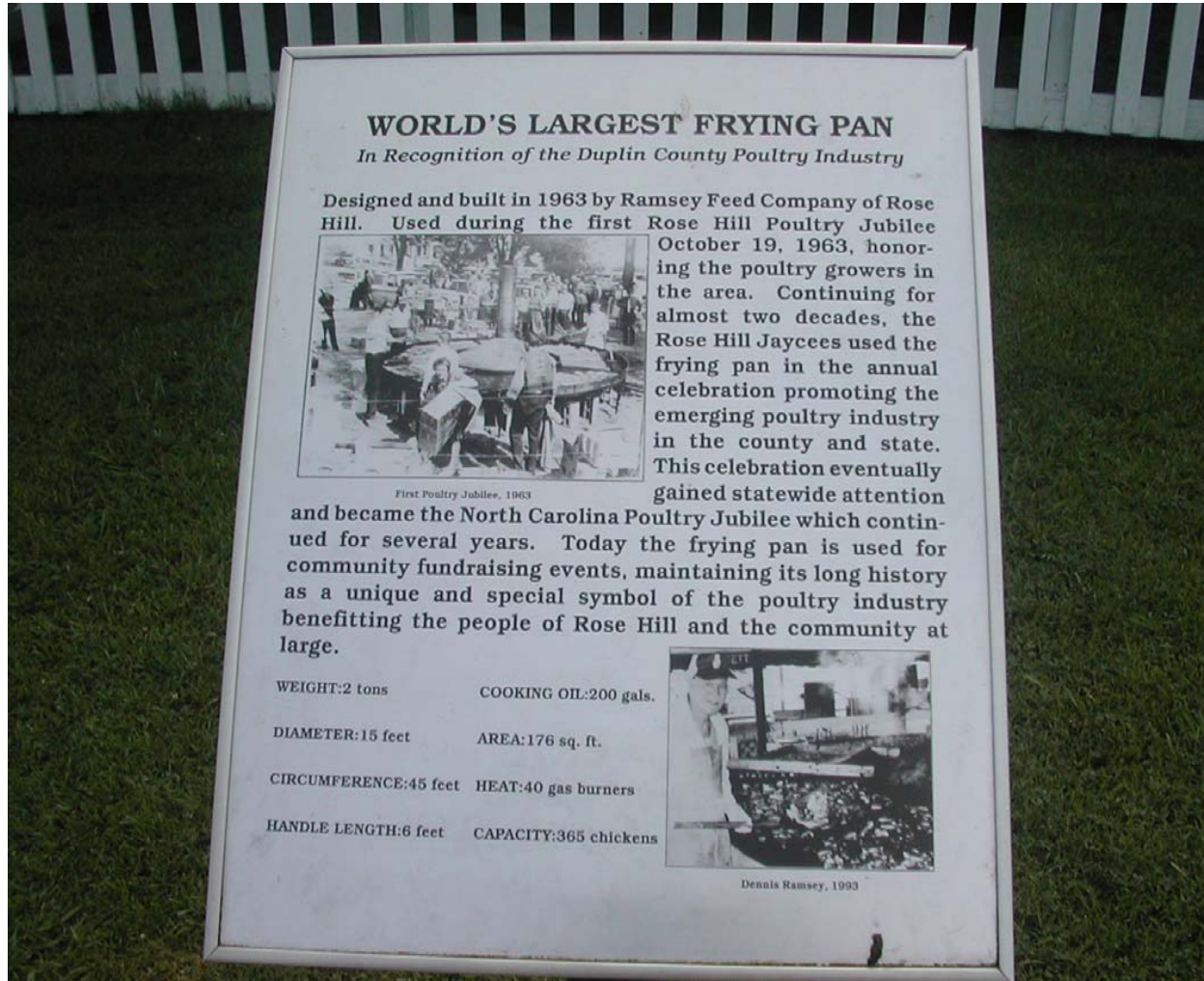
## Duplin County Hog Farm

*Photo taken by Christopher W. Lyu, MPA,*

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# Duplin County Tour



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# Duplin County's Largest Employers - 2000

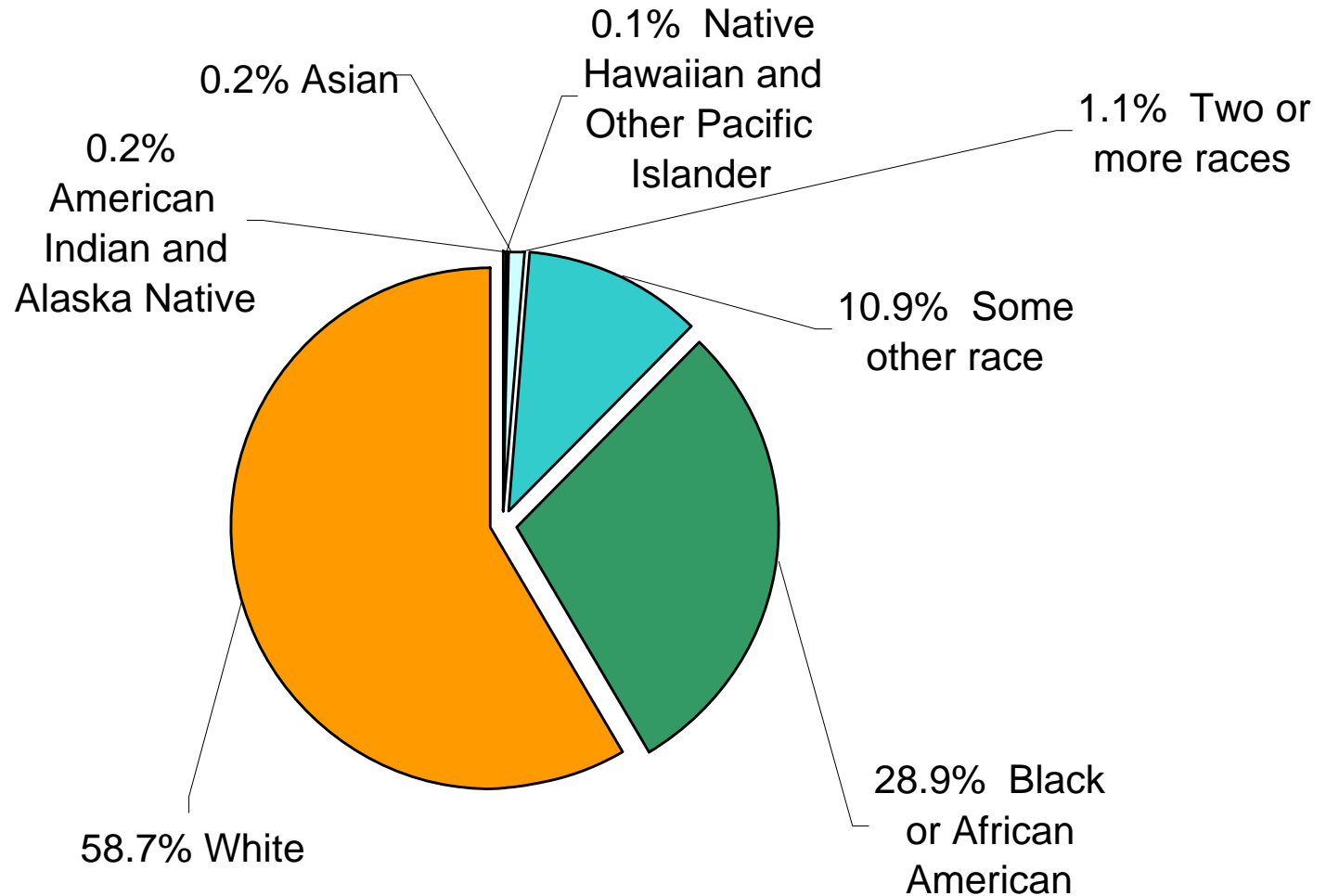


Employer	Product	Employees
Murphy-Brown's Company, Inc.	Pork and Poultry Production Feed Preparation	2,400
Carolina Turkeys	Turkey Processing	2,100
Duplin County Schools	K-12 Public Education	1,300
Guilford Mills, Inc.	Warp Knitting, Dyeing, Finishing; Automotive Textiles	1,040
House of Raeford	Poultry Processing	800
Dean Pickle & Specialty Products Company	Pickles and Relishes	600
Nash Johnson & Sons Farms	Poultry Production Feed Preparation	570
Duplin County Local Government	Local Government	453
Circle S Foods, Inc.	Turkey Processing	400
National Spinning Company	Synthetic Yarns	247
Precision Hydraulic Cylinders, Inc.	Hydraulic Cylinders	142
Allied Duralux, Co.	Athletic Sportswear & Filter Bags	100
Valley Proteins, Inc.	Feed Preparation	100
Amital Spinning Corp.	Acrylic Yarn	60
Amilon, LLC	Chenille Yarn	50
James Sprunt Community College	North Carolina Community College	550
Duplin General Hospital	Local Healthcare Facility	438

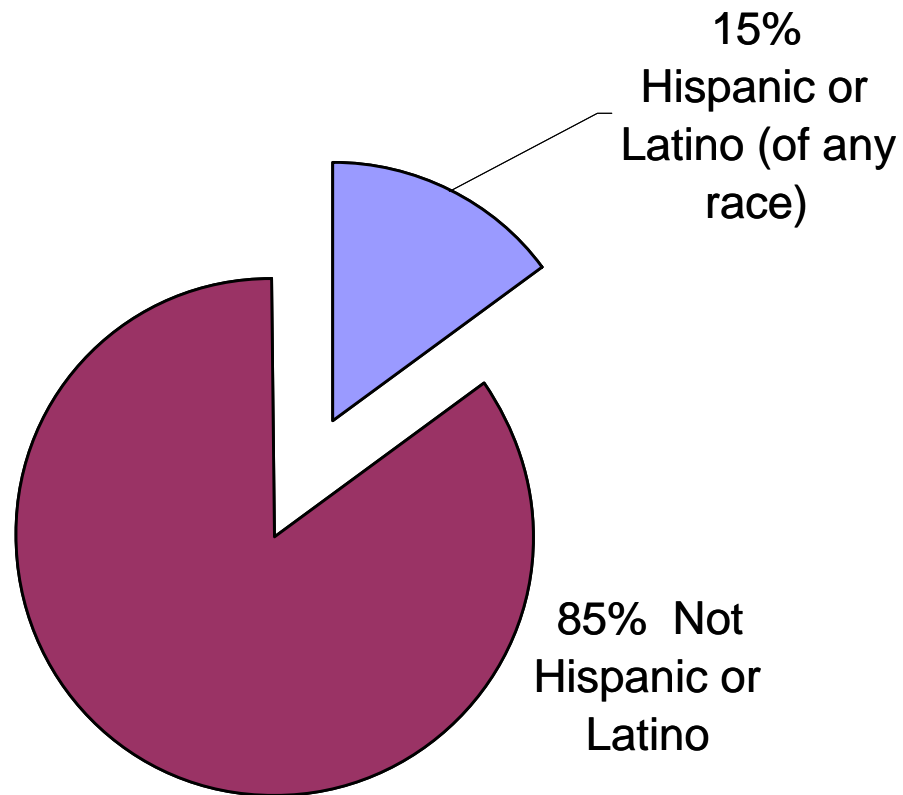




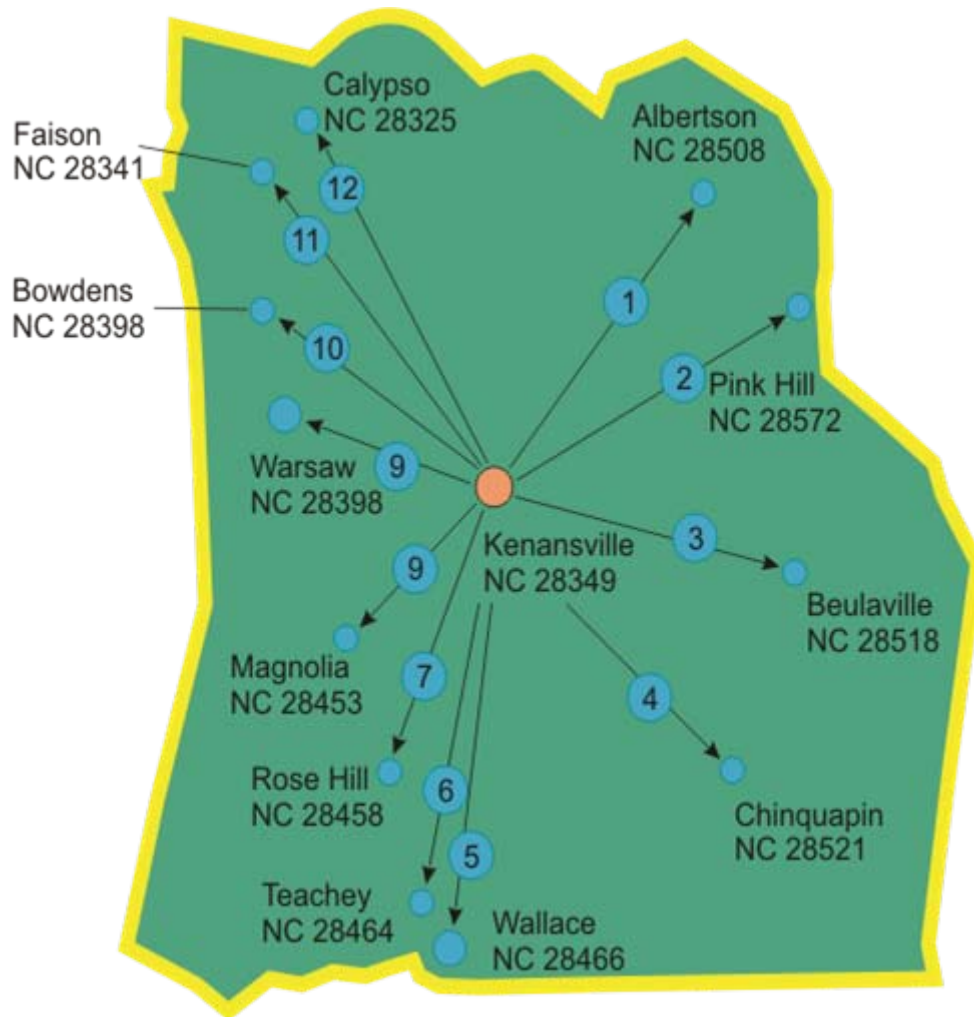
# Duplin County Racial Diversity-2000



# Duplin County Ethnic Diversity - 2000



# Major Towns and Zip Codes



## Est. Distance from Kenansville To:

1. 15 miles
2. 20 miles
3. 13 miles
4. 22 miles
5. 19 miles
6. 18 miles
7. 16 miles
8. 9 miles
9. 10 miles
10. 13 miles
11. 21 miles
12. 27 miles





# Duplin County Female Population by Township and Age Groups, 2003 Population Estimate

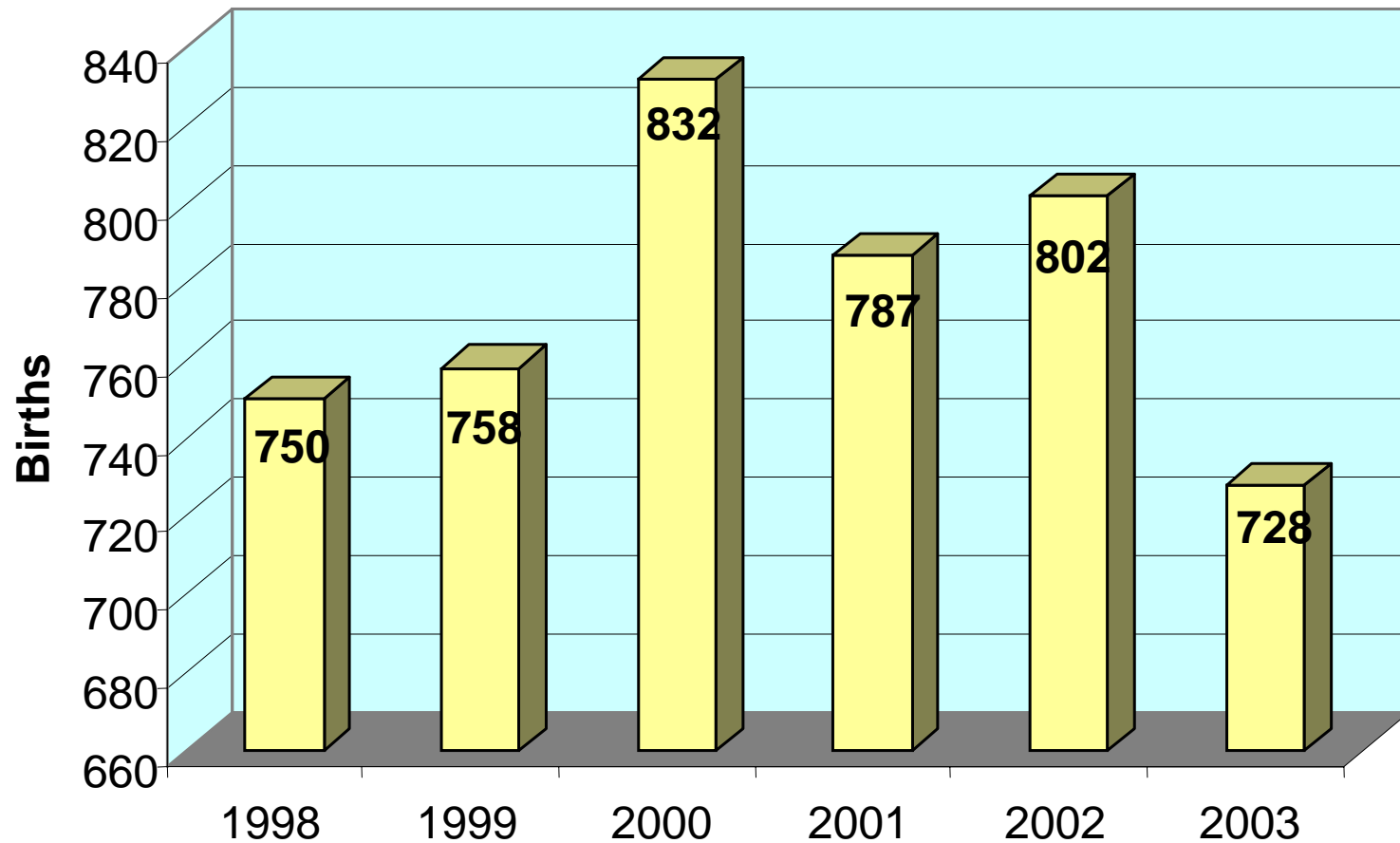


Geographic Area	12 to 17 years	18 to 24 years	25 to 29 years	30 to 34 years	35 to 39 years	40 to 44 years
Albertson township	70	126	177	152	96	50
Cypress Creek township	87	89	113	135	106	142
Faison township	160	153	147	94	175	135
Glisson township	45	81	43	67	59	56
Island Creek township	404	347	275	325	368	304
Kenansville township	179	164	115	156	237	175
Limestone township	257	289	262	213	219	272
Magnolia township	103	177	126	126	120	80
Rockfish township	92	49	40	27	58	65
Rose Hill township	166	122	99	155	132	124
Smith township	82	115	86	88	100	151
Warsaw township	255	316	198	164	221	183
Wolfscrape township	130	115	130	92	77	89
<b>Total</b>	2,029	2,144	1,811	1,794	1,971	1,826



# Numbers of Births

**Duplin County Resident Births 1998 - 2003**



# Top 5 Delivery Hospitals for Duplin County Births



Rank	Hospital Name	2001		2002		2003		3-year total	
		number	% of total	number	% of total	number	% of total	number	% of total
1	Duplin General Hosp, Kenansville	504	64.0%	540	67.3%	504	69.2%	1548	66.8%
2	New Hanover Reg Med Center, Wilmington	120	15.2%	100	12.5%	88	12.1%	308	13.3%
3	Wayne Co Memorial Hosp, Goldsboro	41	5.2%	31	3.9%	37	5.1%	109	4.7%
4	Lenoir Memorial Hosp, Kinston	25	3.20%	26	3.20%	26	3.60%	77	3.30%
5	Onslow Memorial Hosp, Jacksonville	35	4.40%	40	5.00%	0	0.00%	75	3.30%
Total Top 5 Hospitals		725	92.00%	737	91.90%	655	90.00%	2117	91.30%
TOTAL Duplin		787	100.0%	802	100%	728	100%	2317	100%





# Duplin General Hospital - Kenansville



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# Collaboration

## **UNC – Prime**

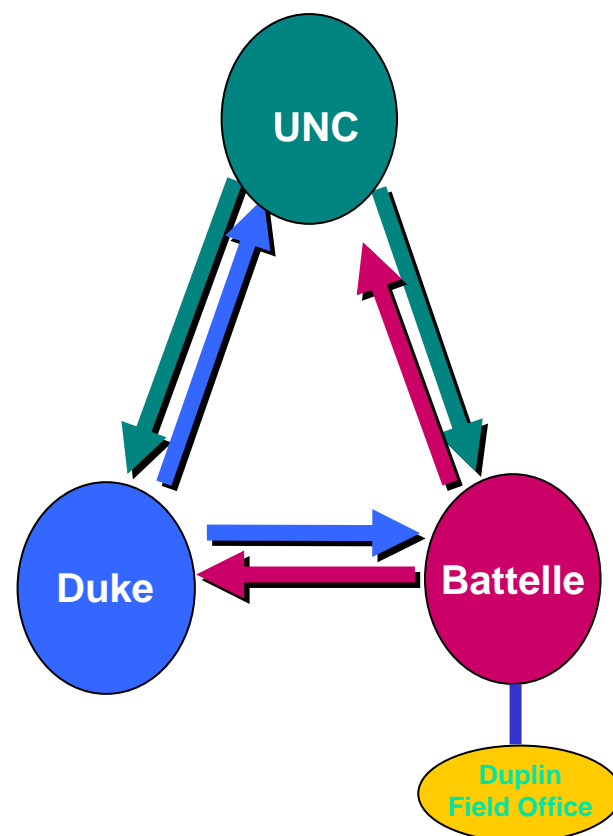
Epidemiology, Ob/Gyn, Child Development  
Liaison with Duplin County  
Research Methods

## **Duke – Sub to UNC**

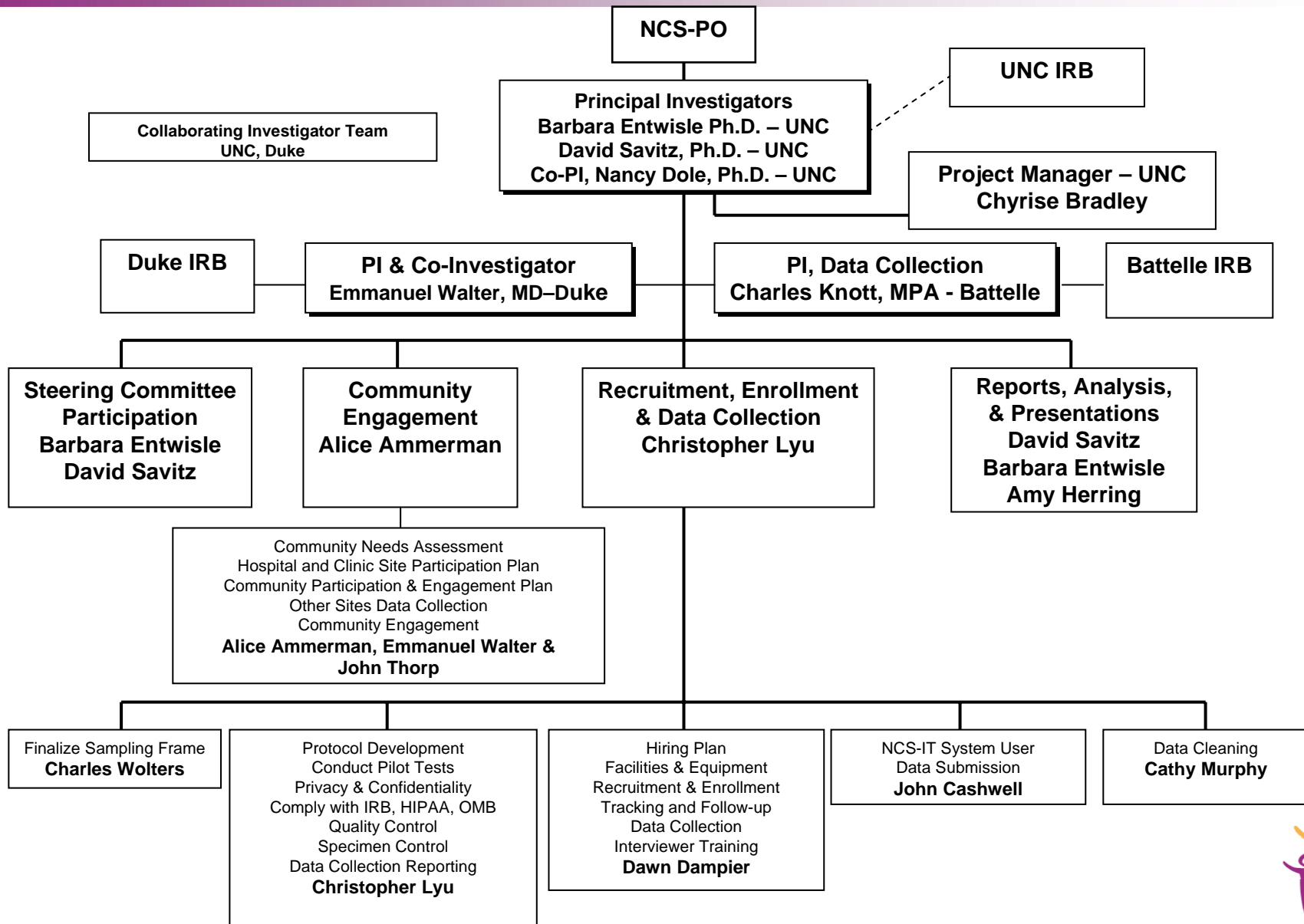
Pediatrics  
Child mental health  
Environmental exposure assessment

## **Battelle – Sub to UNC**

Coordinate Sampling with CC  
Recruitment and enrollment  
Field data collection in homes and clinics

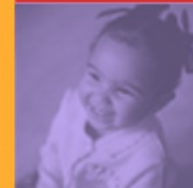


# Duplin County Management Chart





# Indicators of Infant and Child Health



	Duplin County	NC Average
Infant Mortality, 1998-2002	9.4	8.7
Low Birth Weight Babies, 2002	9.6	9.0
Child Deaths, 0-17, all causes (per 100,000)	106.4	79.9
Children in Poverty, 2000	22.9	16.1

